

In re Appln. of Feussner et al.  
Application No. Unassigned (U.S. National Phase of PCT/EP00/06539)

and, optionally, reducing the 11-perhydroxy arachidonic acid, whereupon the reduced 11-hydroxy derivative thereof is obtained.

28. An arachidonic acid derivative containing a hydroxy group at position 11.

*Amendments to the abstract:*

[The present invention relates to a] A method for producing a plant lipoxygenase (LOX) with modified positional specificity toward arachidonic acid and [to] its use for hydroperoxylation of arachidonic acid. [In particular, t] The [inventive] LOX makes it possible to produce for the first time (11S,14Z,12E,8Z,5Z)-11-hydroperoxy-14,12,8,5-eicosatetraenic acids [at] on a large scale. To this end, arachidonic acid is incubated as substrate with the [inventive] LOX under appropriate conditions. Hydroperoxylation of the arachidonic acid is then effected, preferably at position 11, with secondary products which are hydroperoxylated at position 8, at [or] position 5, or at positions 11 and 8 and 5.